INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37763

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 53/16, 35/14, 39/02, 38/00					
USCL	: 424/531, 530, 529, 831; 514/2, 921, 916	ional classification and IPC			
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/531, 530, 529, 831; 514/2, 921, 916					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCT	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ag	propriate, of the relevant passages	Relevant to claim No.		
х	WO 00/55350 A1 (HUMAN GENOME SCIENCES,		1-4 and 7-15		
X,P	claims 17 and 11; pages 372-375, 395, 405 and 406; WO 2004/023973 A2 (INCYTE CORPORATION) 2 document		1-4 and 7-15		
	documents are listed in the continuation of Box C.	See patent family annex. "T" later document published after the inte			
"A" documen	Special categories of cited documents: t defining the general state of the art which is not considered to be of r relevance	date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the ntion		
Ī _	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone			
establish specified	•	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such document	when the document is combined		
"O" documen	t referring to an oral disolosure, use, exhibition or other means	obvious to a person skilled in the art			
priority d	it published prior to the international filing date but later than the later claimed	"&" document member of the same patent			
Date of the a	ctual completion of the international search	Date of mailing of the international search report			
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	il Stop PCT, Attn: ISA/US mmissioner for Patents	S. Devi/Ph.D.	1.00		
P.C	D. Box 1450	Telephone No. (703) 308-0196			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230					

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	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US04/37763
Titale William Paraton and and	101/0504/3//05
Continuation of B. FIELDS SEARCHED Item 3: WEST, DIALOG, MEDLINE, BIOSIS, EMBASE, Sequence databases Gelsonin, SEQ ID NO: i and fragments thereof, (LPS or lipopolysaccharide), sepsinames	is, shook, Gram negative bacterial infect?, inventors'

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INTERNATIONAL SEARCH REPORT

International	appl	ica	tion	No.

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Box	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	\boxtimes	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claims 16 and 26 are improperly multiple dependent.
3.	\boxtimes	Claims Nos.: 16 and 26 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box	No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Ples	s Internations See Co	onal Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	\boxtimes	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4 and 7-15
Rei	nark on i	Protest The additional search fees were accompanied by the applicant's protest.
		No protest accompanied the payment of additional search fees.

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International application No. PCT/US04/37763

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-4 and 7-15, drawn to a method of increasing the concentration of gelsolin or functionally equivalent peptide fragment thereof, or reducing endotoxemia in a patient by administering gelsolin or functionally equivalent peptide fragment thereof.

Group II, claims 1, 5, 7 and 8, drawn to a method of reducing the inhibition of fibrinolysis comprising administering a gelsolin-containing actin-binding compound.

Group III, claims 1 and 6-8, drawn to a method of restoring or maintaining normal aggregation of platelets in a patient by administering gelsolin or functionally equivalent peptide fragment thereof.

Group IV, claims 17-21, drawn to a method of preventing pathogenesis of microvascular dysfunction, ARDS or venous obstruction by administering gelsolin or functionally equivalent peptide fragment thereof.

Group V, claims 22 and 23, drawn to a method of predicting adverse clinical outcome associated with massive inflammation in a patient by measuring the circulating gelsolin concentration.

Group VI, claims 24 and 25, drawn to a pharmaceutical composition comprising gelsolin or a functionally equivalent peptide fragment thereof and a pharmaceutically acceptable vehicle.

Claims 16 and 26 are unsearchable because of their improper multiple dependency.

The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claims 16 and 26 are unsearchable because of their improper multiple dependency.

Inventions I-VI lack unity. The special technical feature of the first claimed invention is a method of increasing the concentration of gelsolin or functionally equivalent peptide fragment thereof. However, such a method involving administration of gelsolin or functionally equivalent peptide fragment thereof. However, such a method involving administration of gelsolin or functionally equivalent peptide fragment thereof was already disclosed in the art at the time of the invention. For example, WO 00/55350 A1 (HUMAN GENOME SCIENCES, INC.) disclosed a method of preventing, treating, or ameliorating a medical condition, such as, Gram negative bacterial infections, infection-induced sepsis and septic shock comprising administering to a mammalian subject of a therapeutically effective amount of a polypeptide comprising the instantly recited SEQ ID NO: 1, AAB43620 (see claims 11 and 17; pages 372-375, 395, 405 and 406; and abstract). Such a method would be expected to reduce the concentration of Gram negative bacterial LPS in the patient. Thus, the special technical feature of the first claimed method is taught by the prior art, and therefore does not define over the prior art. The special technical features of subsequently claimed inventions are delineated above. The methods of inventions II-V do not share significant common steps and ultimate goals accomplished. The special technical feature of invention VI is a pharmaceutical composition comprising gelsolin or a functionally equivalent peptide fragment thereof and a pharmaceutically acceptable vehicle, which is also disclosed by WO 00/55350 A1 (HUMAN GENOME SCIENCES, INC.).